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GPR174 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP16459b

Specification

GPR174 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q9BXC1

GPR174 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 84636

Other Names
Probable G-protein coupled receptor 174, GPR174

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GPR174 Antibody (C-term) Blocking Peptide - Protein Information

Name GPR174

Function
G-protein-coupled receptor of lysophosphatidylserine (LysoPS) that plays different roles in immune response (PubMed:36823105). Plays a negative role in regulatory T-cell accumulation and homeostasis. Under inflammatory conditions where LysoPS production increases, contributes to the down-regulation of regulatory T-cell activity to favor effector response. Mediates the suppression of IL-2 production in activated T-lymphocytes leading to inhibition of growth, proliferation and differentiation of T-cells. Mechanistically, acts via G(12)/G(13)- containing heterotrimeric G proteins to trigger elevated cyclic AMP levels and protein kinase A/PKA activity, which may in turn act to antagonize proximal TCR signaling. Plays an important role in the initial period of sepsis through the regulation of macrophage polarization and pro- and anti-inflammatory cytokine secretions. Upon testosterone treatment, acts as a receptor for CCL21 and subsequently triggers through G(q)-alpha and G(12)/G(13) proteins a calcium flux leading to chemotactic effects on activated B-cells. Signals via GNA13 and PKA to promote CD86 up-regulation by follicular B-cells.

Cellular Location
Cell membrane; Multi-pass membrane protein.

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GPR174 Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

GPR174 Antibody (C-term) Blocking Peptide - Images

GPR174 Antibody (C-term) Blocking Peptide - Background

Putative receptor for purines coupled to G-proteins (By similarity).

GPR174 Antibody (C-term) Blocking Peptide - References

Takeda, S., et al. FEBS Lett. 520 (1-3), 97-101 (2002) :